Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Mathew Nicholson on 10/24/08.

The application has been amended as follows:

Claim 1: A method implemented within a distributed build system <u>including a plurality of</u>

<u>nodes, each node having one or more processors, the method</u> comprising:

scheduling jobs for a build process to execute in parallel across a plurality of

nodes;

transmitting a first source file from a program build file repository to a first node,

the first node using the source file to generate a first target file identified in the build

process;

receiving a request at a file tracking module for the first source file from a second

node; and

the file tracking module redirecting the second node to retrieve the first source

file directly from the first node rather than from the program build file repository, the

~~second node using the first source file~~ to generate a second target file identified in the build process;

the file tracking module updating file location data stored in a central build module to indicate that the first source file is stored at the first node and the second node;

receiving a request at the file tracking module for the first source file from a third node;

choosing between the first node and the second node based on a node prioritization policy; and

the file tracking module redirecting the third node to either the first node or the second node based on the results of the node prioritization policy.

Claims 2-3: (canceled)

Claim 4, line 1: Replace "3" with "1".

Claim 5, line 1: Replace "3" with "1".

Claim 7, line 1: Replace "3" with "1".

Claim 10: A system comprising:

a build machine including,

a processor,

a program build file repository to store source files used during a build process;

a central build module to schedule jobs for the build process to execute in parallel across a plurality of nodes and to transmit a first source file from the program build file repository to a first node, the first node using the first source file to generate a first target file identified in the build process;

a file tracking module to receive a request for the first source file from a second node, and to redirect the second node to retrieve the first source file directly from the first node rather than from the program build file repository, the second node using the first source file to generate a second target file identified in the build process;

wherein responsive to the file tracking module receiving a request from the first source file from a third node, the file tracking module to choose between the first node and the second node based on a node prioritization policy and to redirect the third node to either the first node or the second node based on the results of the node prioritization policy.

Claim 12: (canceled)

Claim 13, line 1: Replace "12" with "11".

Claim 14, line 1: Replace "12" with "11".

Claim 16, line 1: Replace "12" with "11".

Claims 18-25: (canceled)

Newly Added Claim 26: A method implemented within a distributed build system

including a plurality of nodes, each node having one or more processors, the method

comprising:

scheduling jobs for a build process to execute in parallel across a plurality of

nodes;

transmitting a first source file from a program build file repository to a first node,

the first node using the source file to generate a first target file identified in the build

process;

receiving a request at a file tracking module for the first source file from a second

node;

the file tracking module redirecting the second node to retrieve the first source

file directly from the first node rather than from the program build file repository to

generate a second target file identified in the build process;

wherein the first node transmits a portion of the first source file that has been

received at the first node to the second node prior to the first node fully receiving all

portions of the first source file from the program build file repository.

Newly Added Claim 27: The method as in claim 26 further comprising:

the file tracking module updating file location data stored in a central build module to indicate that the first source file is stored at the first node and the second node.

Newly Added Claim 28: The method as in claim 27 further comprising:

receiving a request at the file tracking module for the first source file from a third node;

choosing between the first node and the second node based on a node prioritization policy; and

the file tracking module redirecting the third node to either the first node or the second node based on the results of the node prioritization policy.

Newly Added Claim 29: The method as in claim 28 wherein the node prioritization policy comprises assigning a relatively higher priority to nodes which have requested a source file more recently than other nodes, the method further comprising:

redirecting the third node to retrieve the first source file from the second node.

Newly Added Claim 30: The method as in claim 28 further comprising:

redirecting the third node to retrieve the first source file from the second node based on the results of the node prioritization policy;

the file tracking module determining that the second node is busy; and

as a result of the determination that the second node is busy, redirecting the third

node to retrieve the first source file from the first node.

Newly Added Claim 31: The method as in claim 30 wherein the second node being

busy comprises the second node transferring a second source file to a fourth node,

wherein the second source file is different than the first source file.

Newly Added Claim 32: The method as in claim 28 further comprising:

determining that the first node and/or the second node are busy and/or do not

contain a copy of the first source file; and

redirecting the third node to retrieve the first source file from the program build

file repository.

The following is an examiner's statement of reasons for allowance:

The closest prior art (US 2003/0126118 to Burton; US 2003/016799 to Vasilik) teaches:

receiving a request at a file tracking module for the first source file from a
second node; and
the file tracking module redirecting the second node to retrieve the first source
file directly from the first node rather than from the program build file repository to
generate a second target file identified in the build process
(note the examiner is interpreting this to indicate that the generation is performed by
the second node and not the tracking module).

The closest prior art alone or in combination does not teach

receiving a request at the file tracking module for the first source file from a third
node;
choosing between the first node and the second node based on a node
prioritization policy.

Or:

> wherein the first node transmits a portion of the first source file that has been received at the first node to the second node prior to the first node fully receiving all portions of the first source file from the program build file repository.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Mitchell whose telephone number is (571) 272-3728. The examiner can normally be reached on Monday-Thursday and alternate Fridays 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bullock Lewis can be reached on (571) 272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason Mitchell/
Jason Mitchell 10/25/08

/Lewis A. Bullock, Jr./
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